

CITY OF DESERT HOT SPRINGS

PIERSON BOULEVARD - CHOLLA DRIVE

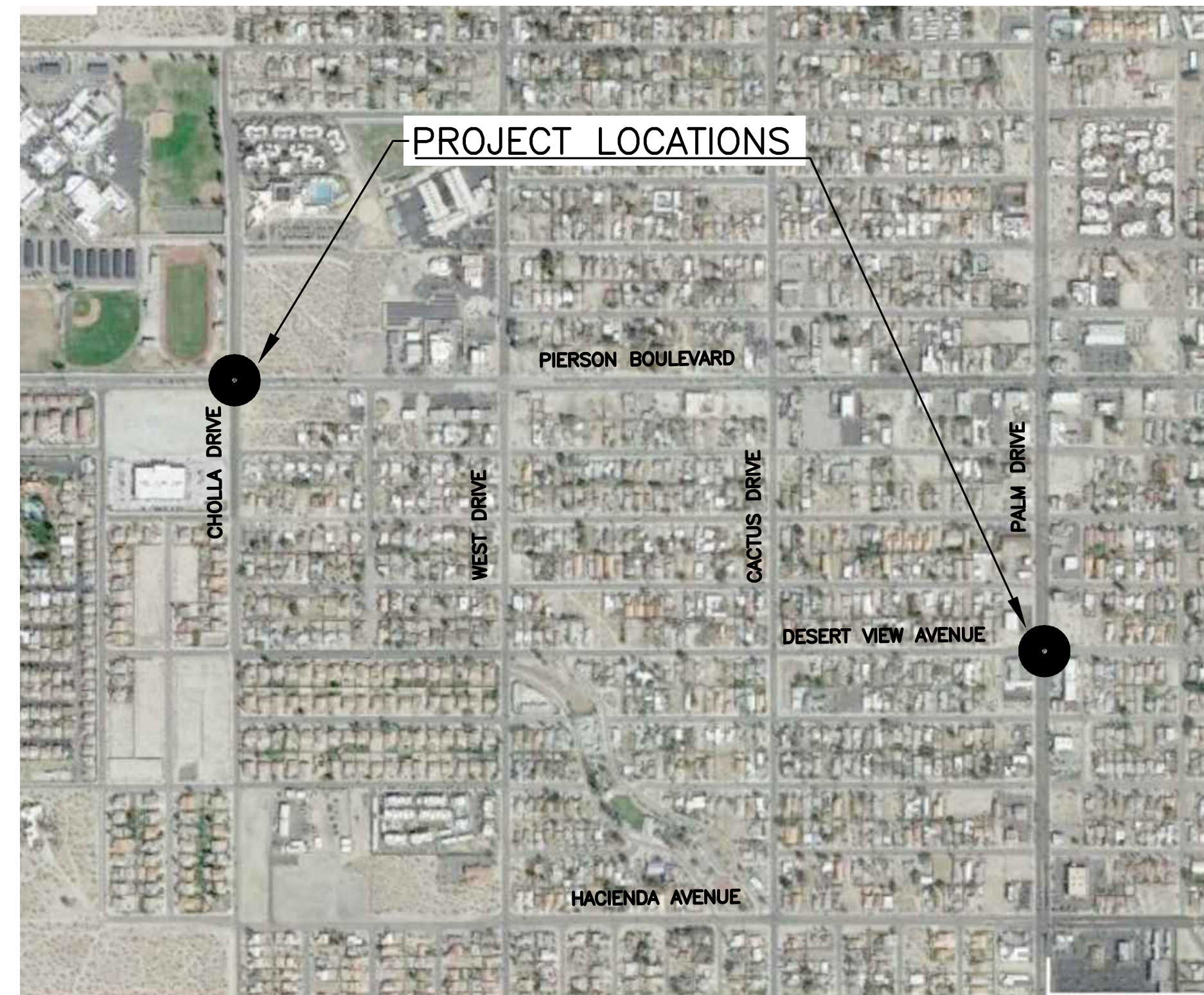
PALM DRIVE - DESERT VIEW AVENUE

TRAFFIC SIGNALS

PROJECT 2019-10

TRAFFIC SIGNAL GENERAL NOTES:

1. ALL MATERIAL AND WORK SHALL CONFORM TO THE LATEST EDITION OF COUNTY OF RIVERSIDE STANDARD PLANS, CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS, AND CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. LOCATIONS OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE PRIOR TO COMMENCING WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ALL DAMAGES OCCURRED DUE TO FAILURE TO LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. HAND DIG AS NEEDED OR AS DIRECTED BY THE ENGINEER UNTIL CLEAR OF OBSTRUCTIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CLEAN UP ON COUNTY RIGHT-OF-WAY AFFECTED BY CONTRACTOR'S WORK. THE CONTRACTOR SHALL KEEP CITY AND COUNTY RIGHTS-OF-WAY CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCES BEING CONTROLLED AT ALL TIMES. METHOD OF STREET CLEANING SHALL BE DRY SWEEPING OF ALL PAVED AREAS. THERE SHALL BE NO STOCKPILING OF CONSTRUCTION MATERIALS WITHIN THE COUNTY RIGHT-OF-WAY WITHOUT THE PERMISSION OF THE ENGINEER.
4. EXISTING PRIVATELY OWNED IMPROVEMENTS ON PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED OR REPLACED.
5. SEE CALTRANS STANDARD PLAN ES-1A, ES-1B, AND ES-1C FOR SYMBOLS AND ABBREVIATION LEGENDS.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRAFFIC SIGNAL EQUIPMENT, SIGNS, AND STRIPING IN ACCORDANCE WITH THE PLANS AND SPECIAL PROVISIONS. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE UNLESS OTHERWISE NOTED.
7. CONTROLLER CABINET AND SERVICE CABINET SHALL BE PLACED AT A MINIMUM OF 15 FEET APART.
8. ELECTRICAL CONDUIT SHALL BE PLACED AT A MINIMUM OF 2 FEET FROM TELEPHONE CONDUIT.
9. ALL PULL BOXES SIZE SHALL BE NO. 5 UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER. PULL BOXES IN UNIMPROVED AREAS NOT PROTECTED BY CURB AND GUTTER SHALL BE TRAFFIC BEARING TYPE. MAXIMUM SPACING BETWEEN PULL BOXES SHALL BE 500 FEET.
10. DETECTOR LOOPS SHALL BE PLACED PER COUNTY OF RIVERSIDE STANDARD PLAN NO. 1201 AND CENTERED WITHIN THE DRIVING LANE UNLESS OTHERWISE NOTED. STRIPING LAYOUT (CAT-TRACKING) SHALL BE APPROVED BY THE COUNTY PRIOR TO DETECTOR LOOP INSTALLATION. ALL LOOP DETECTOR CONFIGURATIONS SHALL BE TYPE "E" PER STANDARD PLAN ES-5B. ALL CURB TERMINATIONS SHALL BE TYPE "A" PER STANDARD PLAN ES-5D. DETECTOR LOOP WIRES SHALL BE TESTED AND APPROVED PRIOR TO FILLING SAWCUTS.
11. ALL CABLES AND CONDUCTORS SHALL BE CONTINUOUS WITH A MINIMUM OF 6 FEET OF SLACK INSIDE EACH PULL BOX UNLESS OTHERWISE NOTED.
12. ALL COMBINATION PEDESTRIAN AND VEHICLE SIGNAL INDICATIONS INCLUDING PV HEADS SHALL UTILIZE LIGHT EMITTING DIODE (LED) SIGNAL MODULES. ALL VEHICLE SIGNAL SECTION AND INDICATIONS SHALL BE 12 INCH.
13. ALL SIGNAL HOUSINGS, VISORS, AND BACKPLATES SHALL BE METAL. VEHICLE SIGNAL HOUSING SHALL BE PROVIDED WITH LOUVERED BACKPLATE. A TUNNEL VISOR SHALL BE PROVIDED FOR EACH SIGNAL FACE.
14. ALL UNUSED TENONS SHALL BE CAPPED IN A WATERPROOF METHOD AS DIRECTED BY THE ENGINEER.
15. ALL EQUIPMENT LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO FINAL PLACEMENT.
16. PLAN SIGNATURE IS GOOD FOR 1 YEAR, ADDITIONAL PLAN REVIEW IS REQUIRED IF NO CONSTRUCTION BEGAN BY THEN.



VICINITY MAP

NO SCALE

GENERAL NOTES:

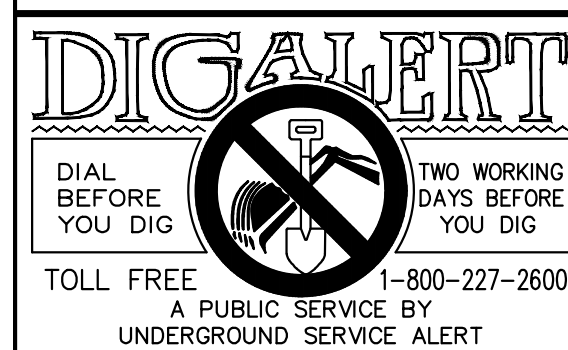
1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY TO THE CITY OF DESERT HOT SPRINGS ENGINEERING DEPARTMENT, PERMIT SECTION, FOR AN ENCROACHMENT PERMIT FOR ALL WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY; AND TO BE RESPONSIBLE FOR SATISFACTORY COMPLIANCE FOR ALL CURRENT ENVIRONMENTAL REGULATIONS DURING THE LIFE OF CONSTRUCTION ACTIVITIES FOR THIS PROJECT. ADDITIONAL STUDIES AND/OR PERMITS MAY BE REQUIRED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING OF THE PROPOSED WORK AREA, AND RELOCATION COSTS OF ALL EXISTING UTILITIES. PERMITTEE MUST INFORM CITY OF DESERT HOT SPRINGS OF CONSTRUCTION SCHEDULE AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION. PHONE: (760) 329-6411 EXT. 224.
3. ALL WORK SHALL CONFORM TO THESE PLANS, THE REQUIREMENTS OF THE CITY OF DESERT HOT SPRINGS, OR WHERE APPLICABLE, THE CALIFORNIA STATE STANDARDS AND SPECIFICATIONS, 2015 EDITION, COUNTY ORDINANCE NO. 461 AND SUBSEQUENT AMENDMENTS.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN ALL CONSTRUCTION REGULATORY, GUIDE AND WARNING SIGNS WITHIN THE PROJECT LIMITS AND ITS SURROUNDING TO PROVIDE SAFE PASSAGE FOR THE TRAVELING PUBLIC AND WORKERS UNTIL THE FINAL COMPLETION AND ACCEPTANCE OF THE PROJECT BY THE CITY OF DESERT HOT SPRINGS.
5. ASPHALTIC EMULSION (FOG SEAL) SHALL BE APPLIED NOT LESS THAN FOURTEEN DAYS FOLLOWING PLACEMENT OF THE ASPHALTIC SURFACING. FOG SEAL AND PAINT BINDER SHALL BE APPLIED AT A RATE OF 0.05 AND 0.03 GALLON PER SQUARE YARD RESPECTIVELY.
6. ALL CONCRETE CURBS, GUTTER, AND PERIMETER STRUCTURES OR HEADERS SHALL BE IN PLACE PRIOR TO PAVING.
7. PRIME COAT IS REQUIRED PRIOR TO PAVING ON ALL GRADES IN EXCESS OF TEN PERCENT.
8. CONSTRUCTION PROJECTS DISTURBING MORE THAN ONE ACRE MUST OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. THE CONTRACTOR IS TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A MONITORING PLAN FOR THE SITE.
9. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS OUTLINED IN THE CITY'S PM10 REQUIREMENTS. A PM10 PLAN SHALL BE SUBMITTED IF REQUIRED.
10. AN APPROVED SOIL STERILIZER SHALL BE USED ON ALL SUBGRADE SURFACES PRIOR TO PLACEMENT OF PAVING.

UTILITY CONTACTS:

UTILITY	PHONE NUMBER
MISSION SPRINGS WATER DISTRICT	760-329-6448
SOUTHERN CALIFORNIA EDISON	760-202-4257
SOUTHERN CALIFORNIA GAS COMPANY	909-335-7507
FRONTIER COMMUNICATIONS	760-864-1715
SPECTRUM CABLE	760-674-5433

SHEET INDEX

1	TITLE SHEET
2	TRAFFIC SIGNAL PLAN AT PIERSON BOULEVARD - CHOLLA DRIVE
3	TRAFFIC SIGNAL PLAN AT PALM DRIVE - DESERT VIEW AVENUE
4	SIGNING AND STRIPING PLANS



<p><small>UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARED OF THESE PLANS.</small></p> <p><small>ENGINEER'S NOTE TO CONTRACTOR: CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.</small></p> <p><small>THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN IN THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND IS RESPONSIBLE FOR THE PROTECTION OF AND ANY DAMAGE TO THESE LINES OR STRUCTURES.</small></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>#</th> <th>REVISIONS</th> <th>DATE</th> <th>APP.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	#	REVISIONS	DATE	APP.					<p><small>BENCHMARK: RIVERSIDE COUNTY BENCHMARK ... ELEVATION: _____</small></p> <p><small>BASIS OF BEARING: STATE PLANE COORDINATE CALIFORNIA ZONE 6 AS DERIVED FROM CORS STATIONS P684, WMMT, AND P600.</small></p>	<p><small>PREPARED, UNDER THE DIRECT SUPERVISION OF:</small></p> <p style="text-align: center;"><i>Noel Zemla</i> 8/14/19 NOEL ZEMLA DATE R.C.E. 57047 EXP. 06/30/21</p> <p><small>GEOTECHNICAL CERTIFICATION, IF REQUIRED, BY:</small></p> <p style="text-align: center;">N/A</p> <p><small>R.C.E. EXP. DATE</small></p>	<p><small>RECOMMENDED FOR APPROVAL BY:</small></p> <p style="text-align: center;">_____ DATE</p> <p><small>APPROVED BY CITY OF DESERT HOT SPRINGS:</small></p> <p style="text-align: center;">_____ DATE</p> <p style="text-align: center;">INTERIM CITY ENGINEER</p>	<p style="text-align: center;">CITY OF DESERT HOT SPRINGS</p> <p style="text-align: center;">PIERSON BLVD. - CHOLLA DR.</p> <p style="text-align: center;">PALM DR. - DESERT VIEW AVE.</p> <p style="text-align: center;">TRAFFIC SIGNAL</p> <p style="text-align: center;">PROJECT 2019-10</p>	<p>SHEET <u>1</u></p> <p>OF <u>4</u></p> <p>PRIVATE REFERENCE # _____</p> <p>CITY REFERENCE # _____</p>
#	REVISIONS	DATE	APP.											

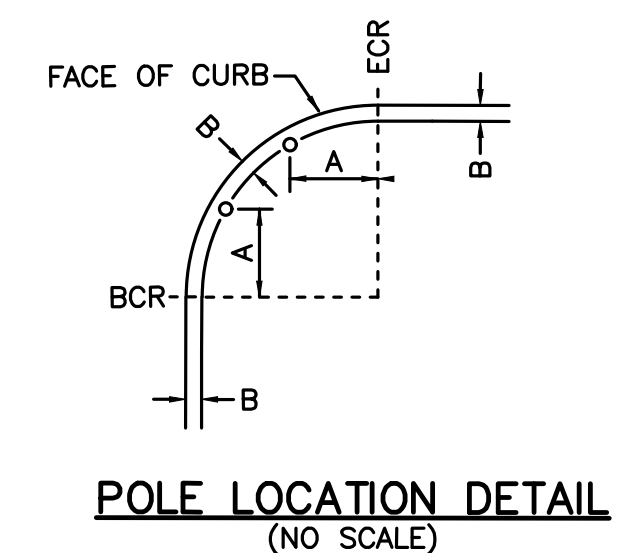
POLE AND EQUIPMENT SCHEDULE

LOC.	STANDARD		SIGNAL M.A.	POLE LOCATION		SIGNAL MOUNTING			PPB *		BPB **		LUMINAIRE		REMARKS
	TYPE	HEIGHT		A	B	M.A.	VEH.	PED.	Ø	ARROW	Ø	ARROW	LED	M.A.	
(A)	BPB POST	3'-10"	-	0'	2'	-	-	-	-	8	←	-	-		
(B)	1-A	10'	-	15.4'	6'	-	TV-2-T	SP-1-T	2	→	-	-	-		
(C)	19-2-100	30'	30'	12.6'	3'	MAS	SV-1-T	SP-1-T	8	←	-	-	165W	15'	DOUBLE-SIDED IISNS "Pierson Boulevard"
(D)	1-A	10'	-	15'	2.5'	-	TV-1-T	SP-1-T	8	→	6	←	-	-	
(E)	29-5-100	30'	50'	14.2'	3'	MAS MAS	SV-1-T	SP-1-T	6	←	-	-	165W	15'	F=17', DOUBLE-SIDED IISNS "Esmeralda Salazar"
(F)	1-A	10'	-	14.8'	2.5'	-	TV-2-T	SP-1-T	6	→	4	←	-	-	
(G)	19-2-100	30'	25'	14.2'	3'	MAS	SV-1-T	SP-1-T	4	←	-	-	165W	15'	DOUBLE-SIDED IISNS "Pierson Boulevard"
(H)	1-A	10'	-	7.6'	2.5'	-	TV-1-T	SP-1-T	4	→	2	←	-	-	
(I)	26-4-100	30'	40'	6.9'	3'	MAS MAS	SV-1-T	SP-1-T	2	←	-	-	165W	15'	F=17', DOUBLE-SIDED IISNS "Cholla Avenue"

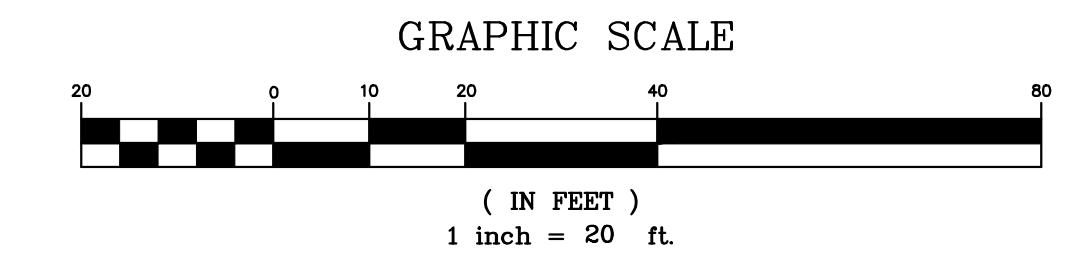
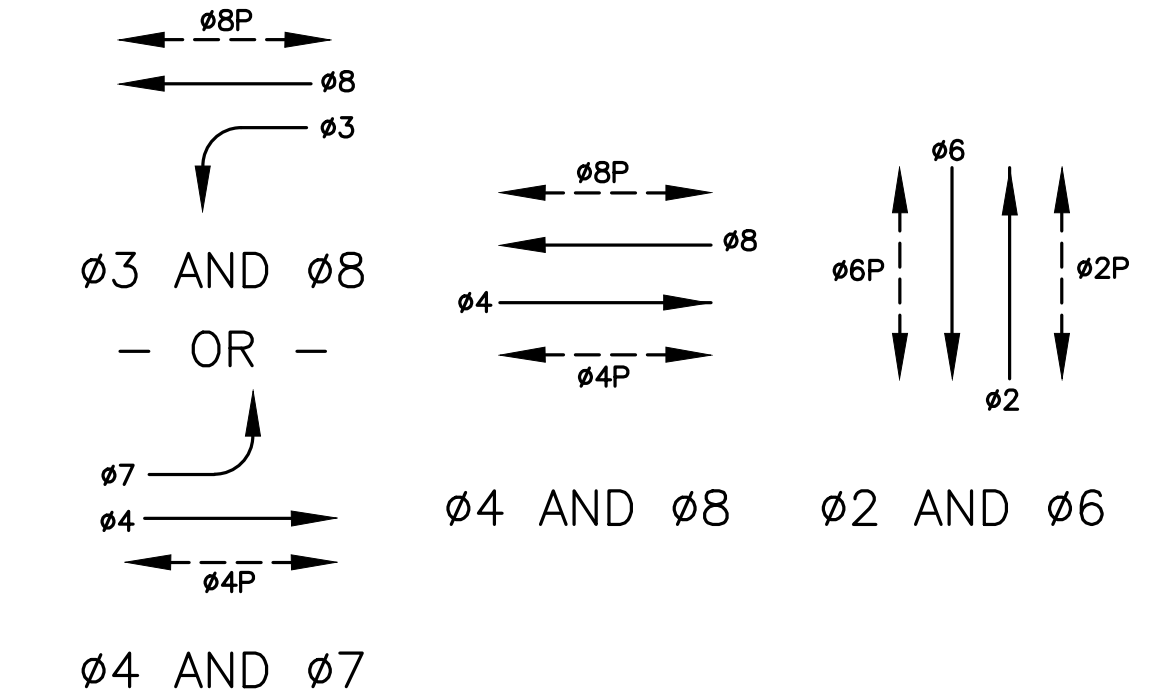
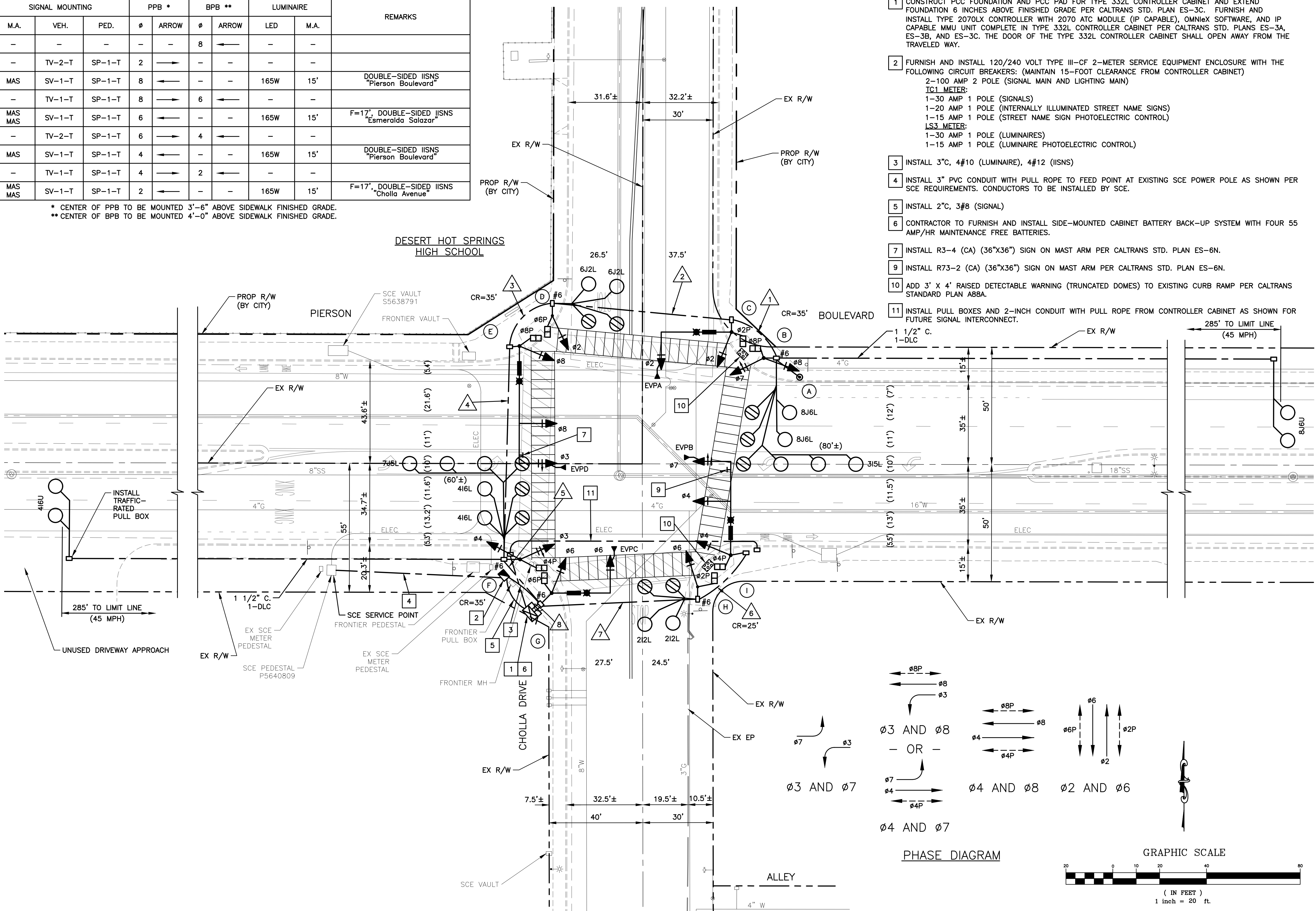
* CENTER OF PPB TO BE MOUNTED 3'-6" ABOVE SIDEWALK FINISHED GRADE.
** CENTER OF BPB TO BE MOUNTED 4'-0" ABOVE SIDEWALK FINISHED GRADE.

CONSTRUCTION NOTES:

- CONSTRUCT PCC FOUNDATION AND PCC PAD FOR TYPE 332L CONTROLLER CABINET AND EXTEND FOUNDATION 6 INCHES ABOVE FINISHED GRADE PER CALTRANS STD. PLAN ES-3C. FURNISH AND INSTALL TYPE 2070LX CONTROLLER WITH 2070 ATC MODULE (IP CAPABLE), OMNIEX SOFTWARE, AND IP CAPABLE MMU UNIT COMPLETE IN TYPE 332L CONTROLLER CABINET PER CALTRANS STD. PLANS ES-3A, ES-3B, AND ES-3C. THE DOOR OF THE TYPE 332L CONTROLLER CABINET SHALL OPEN AWAY FROM THE TRAVELED WAY.
- FURNISH AND INSTALL 120/240 VOLT TYPE III-CF 2-METER SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS: (MAINTAIN 15-FOOT CLEARANCE FROM CONTROLLER CABINET)
2-100 AMP 2 POLE (SIGNAL MAIN AND LIGHTING MAIN)
TC1 METER:
1-30 AMP 1 POLE (SIGNALS)
1-20 AMP 1 POLE (INTERNALLY ILLUMINATED STREET NAME SIGNS)
1-15 AMP 1 POLE (STREET NAME SIGN PHOTOELECTRIC CONTROL)
LS3 METER:
1-30 AMP 1 POLE (LUMINAIRES)
1-15 AMP 1 POLE (LUMINAIRE PHOTOELECTRIC CONTROL)
- INSTALL 3"C, 4#10 (LUMINAIRE), 4#12 (IISNS)
- INSTALL 3" PVC CONDUIT WITH PULL ROPE TO FEED POINT AT EXISTING SCE POWER POLE AS SHOWN PER SCE REQUIREMENTS. CONDUCTORS TO BE INSTALLED BY SCE.
- INSTALL 2"C, 3#8 (SIGNAL)
- CONTRACTOR TO FURNISH AND INSTALL SIDE-MOUNTED CABINET BATTERY BACK-UP SYSTEM WITH FOUR 55 AMP/HR MAINTENANCE FREE BATTERIES.
- INSTALL R3-4 (CA) (36"x36") SIGN ON MAST ARM PER CALTRANS STD. PLAN ES-6N.
- INSTALL R73-2 (CA) (36"x36") SIGN ON MAST ARM PER CALTRANS STD. PLAN ES-6N.
- ADD 3' X 4' RAISED DETECTABLE WARNING (TRUNCATED DOMES) TO EXISTING CURB RAMP PER CALTRANS STANDARD PLAN A88A.
- INSTALL PULL BOXES AND 2-INCH CONDUIT WITH PULL ROPE FROM CONTROLLER CABINET AS SHOWN FOR FUTURE SIGNAL INTERCONNECT.



CONDUCTOR SCHEDULE									
AWG. OR CABLE	POLE OR CIRCUIT	1	2	3	4	5	6	7	8
	POLE A	1	1	1	1	1	0	0	0
	POLE B	1	1	1	1	1	0	0	1
	POLE C	0	0	1	1	1	0	0	1
	POLE D	0	0	1	1	1	0	0	1
	POLE E	0	0	0	1	1	0	0	1
	POLE F	0	0	0	0	1	0	0	1
	POLE G	0	0	0	0	0	0	0	1
	POLE H	0	0	0	0	0	0	0	1
	POLE I	0	0	0	0	0	1	1	1
	TOTAL CSC CABLES 3CSC/12CSC	2	2	2	3	4	5	1	5
#12	IISNS	-	2	2	2	2	2	2	-
#10	LUMINAIRE	-	2	2	2	2	2	2	-
#8	GROUND	-	2	2	2	2	2	2	-
	EVPA	-	1	1	1	1	-	-	1
	EVPB	-	-	-	-	-	1	1	1
	EVPC	-	-	-	-	-	-	-	1
	EVDP	-	-	-	1	1	-	-	1
	TOTAL EVP CABLE	-	1	1	2	2	1	1	4
	VEH DET Ø2	-	-	-	-	-	-	-	1
	VEH DET Ø3	1	1	1	1	1	-	-	1
	VEH DET Ø4	-	-	-	-	2	-	-	2
	VEH DET Ø6	-	-	1	1	1	-	-	1
	VEH DET Ø7	-	-	-	-	1	-	-	1
	VEH DET Ø8	2	2	2	2	2	-	-	2
	TOTAL DLC	3	3	4	4	7	-	-	8
	CONDUIT SIZE	3"	3"	3"	3"	4"	3"	3"	2-4"
	PERCENT FILL	8%	14%	19%	24%	18%	7%	12%	12%



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ENGINEER'S NOTE TO CONTRACTOR: CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SCALE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY TO CONTRACTORS AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN IN THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND IS RESPONSIBLE FOR THE PROTECTION OF AND ANY DAMAGE TO THESE LINES OR STRUCTURES.

#	REVISIONS	DATE	APP.

BENCHMARK: RIVERSIDE COUNTY BENCHMARK... ELEVATION: ...

BASIS OF BEARING: STATE PLANE COORDINATE CALIFORNIA ZONE 6 AS DERIVED FROM CORN STATIONS P584, WMMT, AND P600.

DEVELOPER: CITY OF DESERT HOT SPRINGS, 65950 PIERSON BLVD., PHONE (760)329-6411

SCALE: AS NOTED
PLOT DATE: ...
DESIGN BY: J.G.
DRAWN BY: G.G.
CHECKED BY: N.Z.

PREPARED UNDER THE DIRECT SUPERVISION OF: NOEL ZEMLA, R.C.E. 57047, EXP. 06/30/21, DATE 8/14/19

RECOMMENDED FOR APPROVAL BY: ... DATE ...

APPROVED BY CITY OF DESERT HOT SPRINGS: ... DATE ...

INTERIM CITY ENGINEER: ...

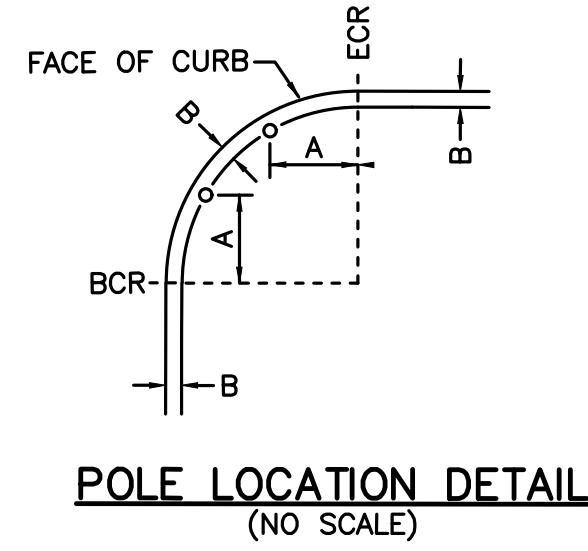
CITY OF DESERT HOT SPRINGS
PIERSON BLVD. - CHOLLA DR.
PALM DR. - DESERT VIEW AVE.
TRAFFIC SIGNAL
PROJECT 2019-10

SHEET 2 OF 4
PRIVATE REFERENCE #
CITY REFERENCE #

POLE AND EQUIPMENT SCHEDULE

LOC.	STANDARD		SIGNAL M.A.	POLE LOCATION		SIGNAL MOUNTING			PPB *		BPB **		LUMINAIRE		REMARKS
	TYPE	HEIGHT		A	B	M.A.	VEH.	PED.	Ø	ARROW	Ø	ARROW	LED	M.A.	
(A)	26-4-100	30'	40'	7.3'	6'	MAS MAS	SV-1-T	SP-1-T	4	←	-	-	165W	15'	F=14', DOUBLE-SIDED IISNS "Desert View Avenue"
(B)	1-A	10'	-	8.2'	2.5'	-	TV-1-T	SP-1-T	6	→	8	←	-	-	DOUBLE-SIDED IISNS "Palm Drive"
(C)	19-2-100	30'	25'	8.2'	3'	MAS	SV-1-T	SP-1-T	6	←	-	-	165W	15'	DOUBLE-SIDED IISNS "Palm Drive"
(D)	1-A	10'	-	6.7'	2.5'	-	TV-2-T	SP-1-T	8	→	6	←	-	-	
(E)	26-4-100	30'	40'	12.1'	3'	MAS MAS	SV-1-T	SP-1-T	8	←	-	-	165W	15'	F=14', DOUBLE-SIDED IISNS "Desert View Avenue"
(F)	1-A	10'	-	8.9'	2.5'	-	TV-1-T	SP-1-T	2	→	4	←	-	-	DOUBLE-SIDED IISNS "Palm Drive"
(G)	19-2-100	30'	25'	7'	3'	MAS	SV-1-T	SP-1-T	2	←	-	-	165W	15'	DOUBLE-SIDED IISNS "Palm Drive"
(H)	1-A	10'	-	7.6'	2.5'	-	TV-2-T	SP-1-T	4	→	2	←	-	-	

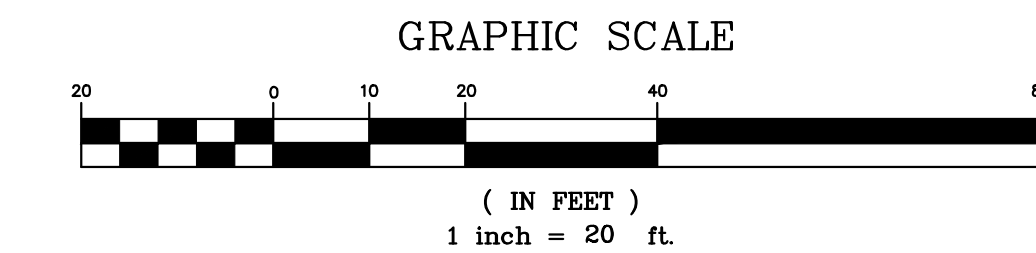
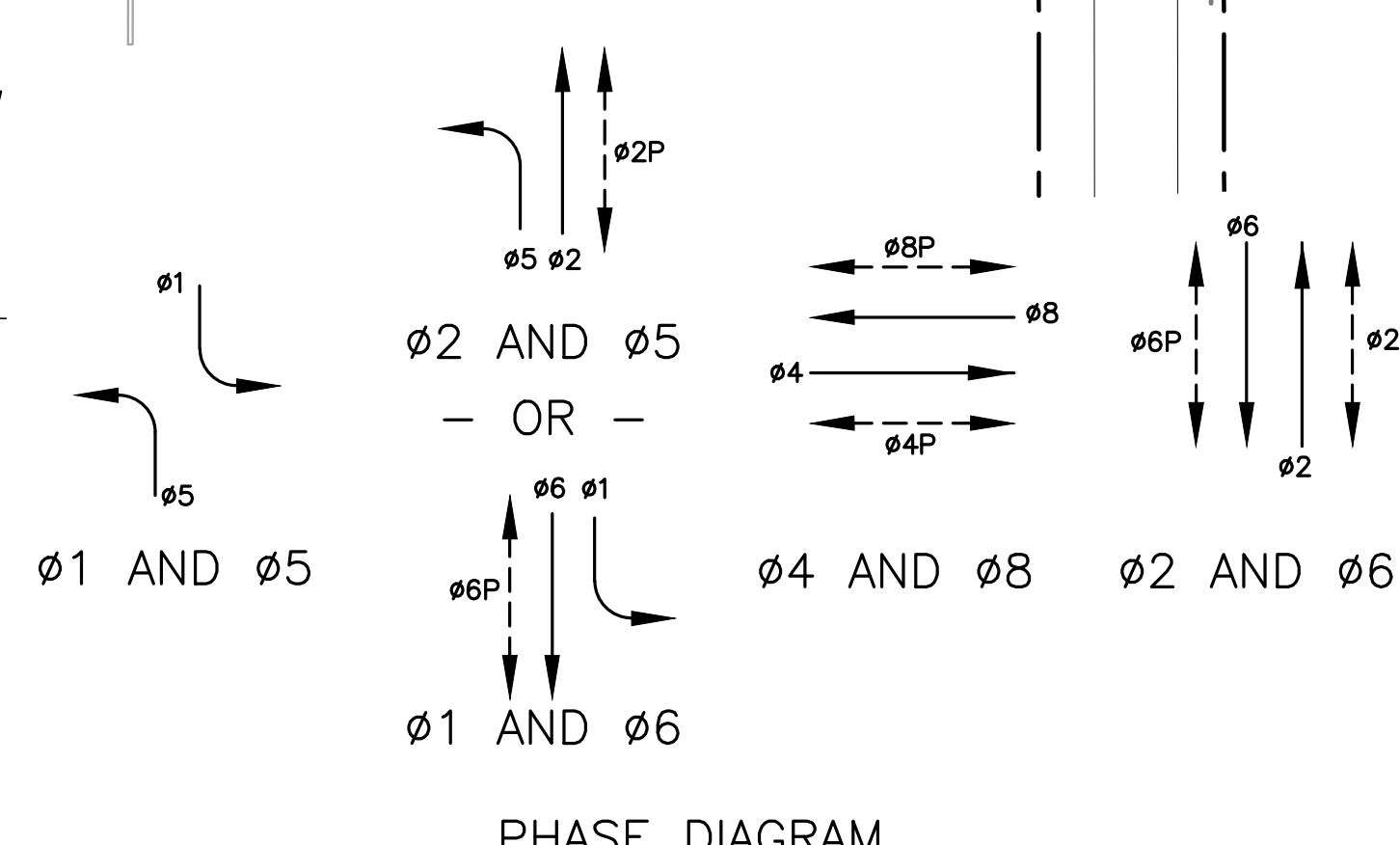
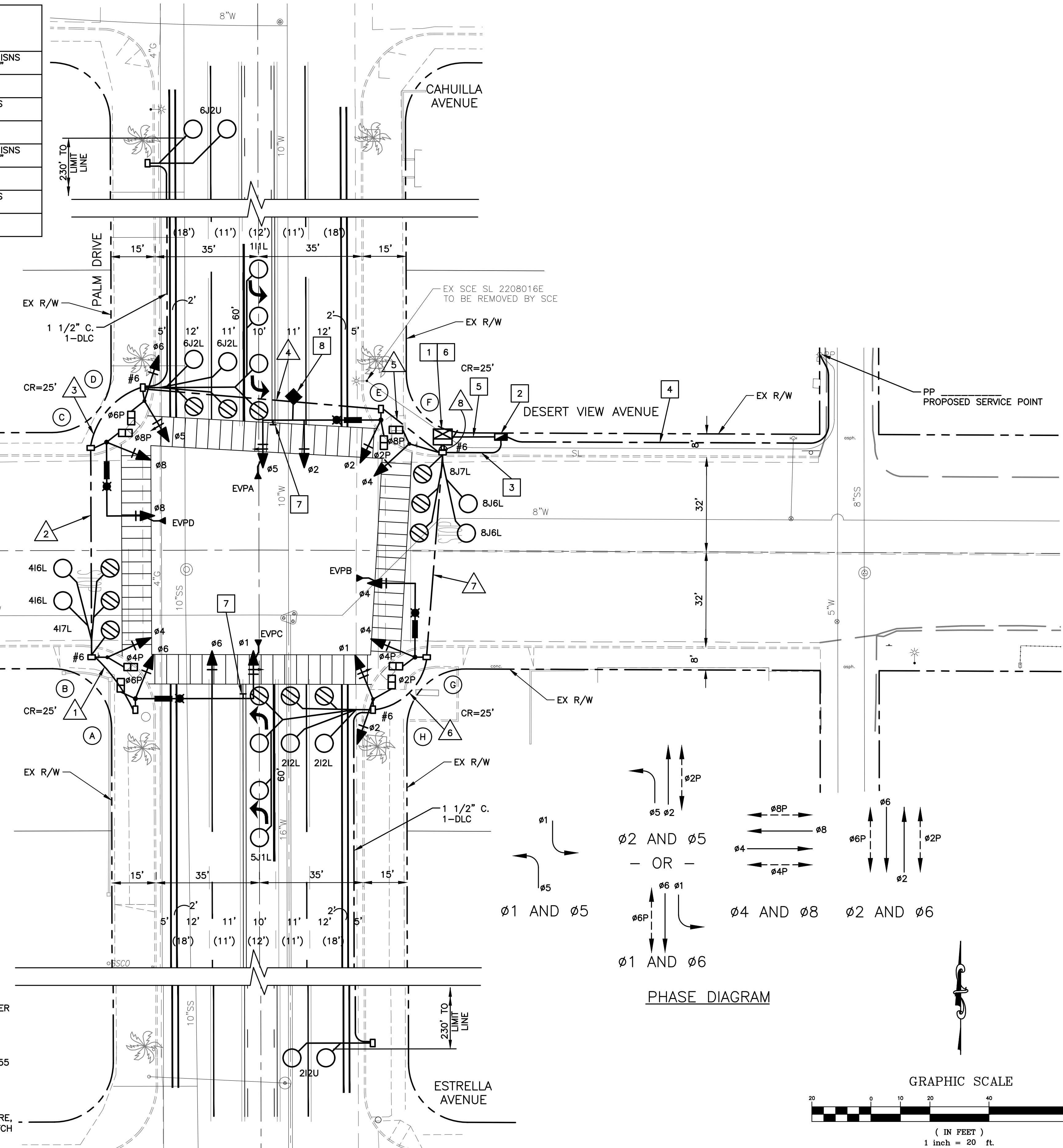
* CENTER OF PPB TO BE MOUNTED 3'-6" ABOVE SIDEWALK FINISHED GRADE.
 ** CENTER OF BPB TO BE MOUNTED 4'-0" ABOVE SIDEWALK FINISHED GRADE.



CONDUCTOR SCHEDULE									
AWG. OR CABLE	POLE OR CIRCUIT	1	2	3	4	5	6	7	8
3/12	POLE A	1	1	1	1	1	0	0	1
	POLE B	0	0	0	0	0	0	0	0
	POLE C	0	0	0	1	1	0	0	0
	POLE D	0	0	0	1	1	0	0	0
	POLE E	0	0	0	0	1	0	0	0
	POLE F	0	0	0	0	0	0	0	0
	POLE G	0	0	0	0	0	0	0	0
	POLE H	0	0	0	0	0	1	1	1
TOTAL CSC CABLES		1	1	1	2	3	1	1	4
3CSC/12CSC		1	2	3	4	5	1	2	8
#12	IISNS	2	2	2	2	2	-	2	-
#10	LUMINAIRE	2	2	2	2	2	-	2	-
#8	GROUND	1	1	1	1	1	-	1	-
ANT WIRELESS CABLE		-	-	-	-	-	-	-	-
EVP	EVPA	-	-	-	-	1	-	-	-
	EVPB	-	-	-	-	-	-	1	-
	EVPC	1	1	1	1	1	-	-	-
	EVPD	-	-	1	1	1	-	-	-
	TOTAL EVP CABLE	1	1	2	2	3	-	1	4
DLC	VEH DET Ø1	-	-	-	1	1	-	-	1
	VEH DET Ø2	-	-	-	-	-	2	2	2
	VEH DET Ø4	-	2	2	2	2	-	-	2
	VEH DET Ø5	-	-	-	-	-	1	1	1
	VEH DET Ø6	-	-	-	2	2	-	-	2
	VEH DET Ø8	-	-	-	-	-	-	-	2
	TOTAL DLC	-	2	2	5	5	3	3	10
	CONDUIT SIZE	3"	3"	3"	3"	4"	3"	3"	2-4"
PERCENT FILL	7%	12%	17%	24%	17%	7%	13%	12%	

CONSTRUCTION NOTES:

- CONSTRUCT PCC FOUNDATION AND PCC PAD FOR TYPE 332L CONTROLLER CABINET AND EXTEND FOUNDATION 6 INCHES ABOVE FINISHED GRADE PER CALTRANS STD. PLAN ES-3C. FURNISH AND INSTALL TYPE 2070LX CONTROLLER WITH 2070 ATC MODULE (IP CAPABLE), OMNIx SOFTWARE, AND IP CABLE MMU UNIT COMPLETE IN TYPE 332L CONTROLLER CABINET PER CALTRANS STD. PLANS ES-3A, ES-3B, AND ES-3C. THE DOOR OF THE TYPE 332L CONTROLLER CABINET SHALL OPEN AWAY FROM THE TRAVELED WAY.
- FURNISH AND INSTALL 120/240 VOLT TYPE III-CF 2-METER SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS: (MAINTAIN 15-FOOT CLEARANCE FROM CONTROLLER CABINET)
 2-100 AMP 2 POLE (SIGNAL MAIN AND LIGHTING MAIN)
 TC1 METER:
 1-30 AMP 1 POLE (SIGNALS)
 1-20 AMP 1 POLE (INTERNALLY ILLUMINATED STREET NAME SIGNS)
 1-15 AMP 1 POLE (STREET NAME SIGN PHOTOELECTRIC CONTROL)
 LSS METER:
 1-30 AMP 1 POLE (LUMINAIRE)
 1-15 AMP 1 POLE (LUMINAIRE PHOTOELECTRIC CONTROL)
- INSTALL 3"C, 4#10 (LUMINAIRE), 4#12 (IISNS)
- INSTALL 3" PVC CONDUIT WITH PULL ROPE TO FEED POINT AT EXISTING SCE POWER POLE AS SHOWN PER SCE REQUIREMENTS. CONDUCTORS TO BE INSTALLED BY SCE.
- INSTALL 2"C, 3#8 (SIGNAL)
- CONTRACTOR TO FURNISH AND INSTALL SIDE-MOUNTED CABINET BATTERY BACK-UP SYSTEM WITH FOUR 55 AMP/HR MAINTENANCE FREE BATTERIES.
- INSTALL R3-4 (CA) (36"x36") SIGN ON MAST ARM PER CALTRANS STD. PLAN ES-6N.
- FURNISH AND INSTALL 5GHZ WIRELESS BROADBAND RADIO SYSTEM, ANTENNA CABLE, MOUNTING HARDWARE, AND AUXILIARY EQUIPMENT COMPLETE. INSTALL PoE INJECTOR AND 8-PORT HARDENED MANAGED SWITCH AT CONTROLLER CABINET.



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#	REVISIONS	DATE	APP.

BENCHMARK: RIVERSIDE COUNTY BENCHMARK... ELEVATION: ...

BASIS OF BEARING: STATE PLANE COORDINATE CALIFORNIA ZONE 6 AS DERIVED FROM CORS STATIONS P684, WMMT, AND P600.

DEVELOPER: CITY OF DESERT HOT SPRINGS, 65950 PIERSON BLVD., PHONE (760)329-6411

PREPARED, UNDER THE DIRECT SUPERVISION OF: NOEL ZEMLA, R.C.E. 57047, EXP. 06/30/21, DATE 8/14/19

SCALE: AS NOTED

PLOT DATE: ...

DESIGN BY: J.G.

DRAWN BY: G.G.

CHECKED BY: N.Z.

RECOMMENDED FOR APPROVAL BY: ... DATE ...

APPROVED BY CITY OF DESERT HOT SPRINGS: ... DATE ...

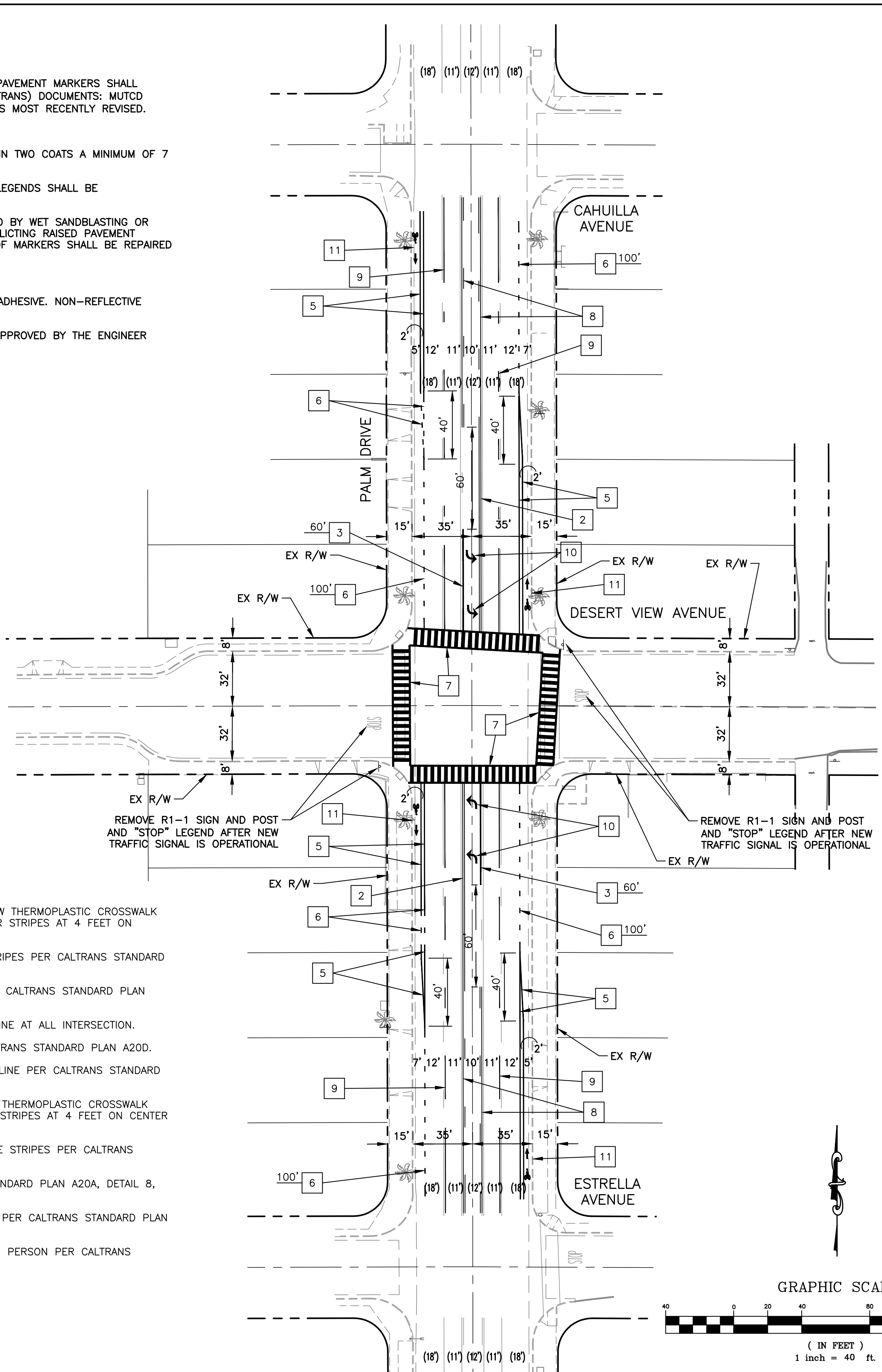
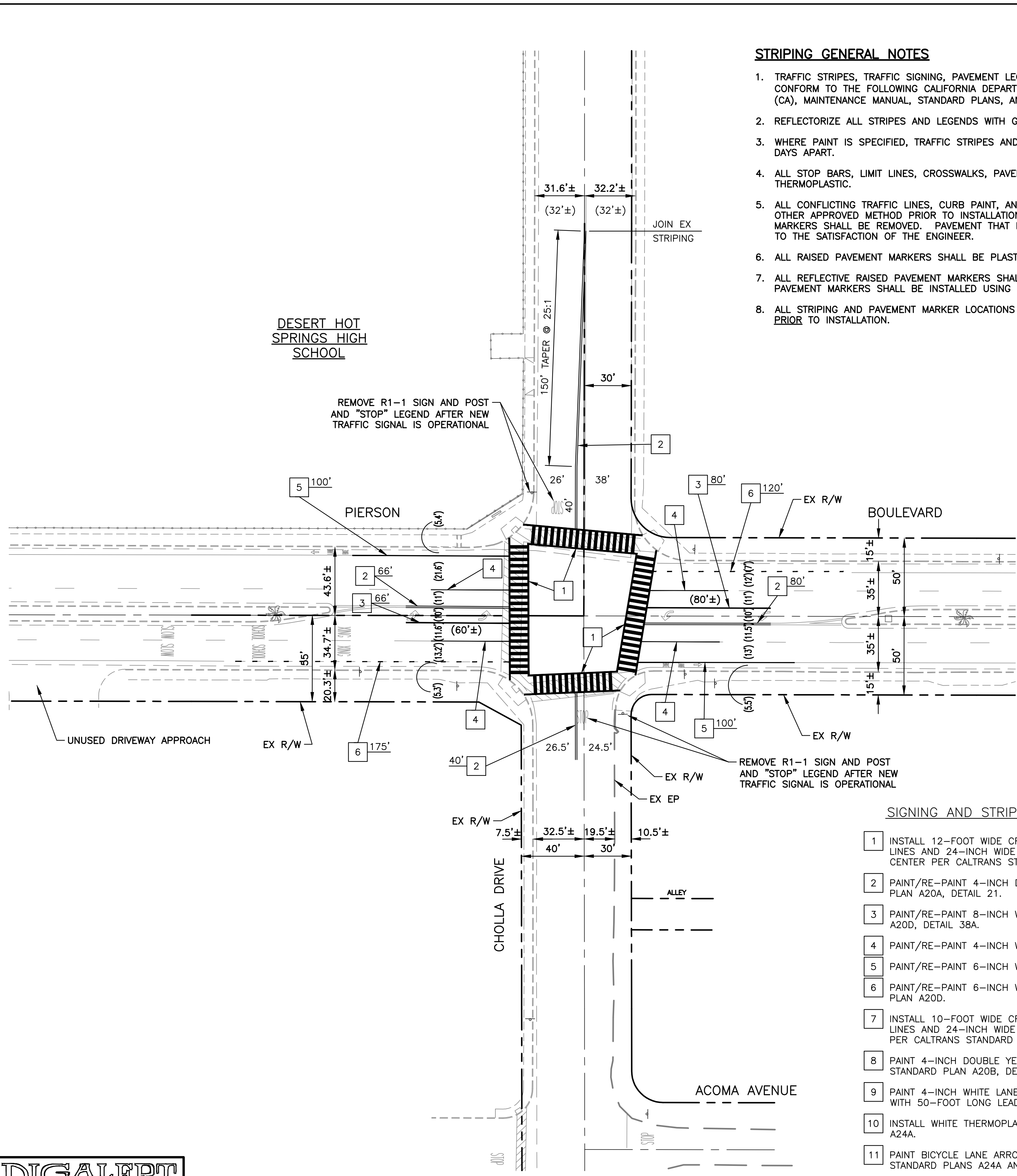
INTERIM CITY ENGINEER

CITY OF DESERT HOT SPRINGS
 PIERSON BLVD. - CHOLLA DR.
 PALM DR. - DESERT VIEW AVE.
 TRAFFIC SIGNAL
 PROJECT 2019-10

SHEET 3 OF 4
 PRIVATE REFERENCE #
 CITY REFERENCE #

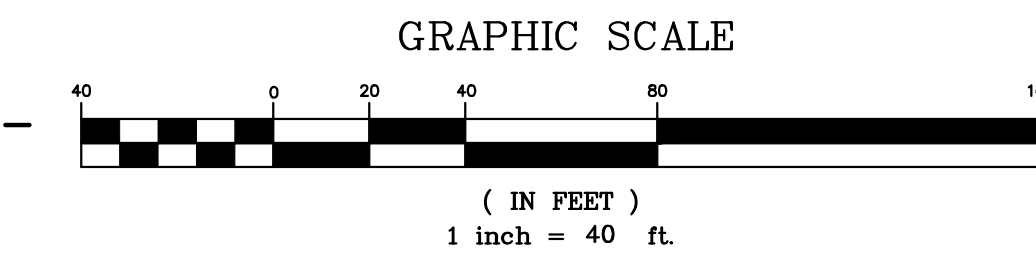
STRIPING GENERAL NOTES

1. TRAFFIC STRIPES, TRAFFIC SIGNING, PAVEMENT LEGENDS, MARKINGS AND RAISED PAVEMENT MARKERS SHALL CONFORM TO THE FOLLOWING CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) DOCUMENTS: MUTCD (CA), MAINTENANCE MANUAL, STANDARD PLANS, AND STANDARD SPECIFICATIONS, AS MOST RECENTLY REVISED.
2. REFLECTORIZE ALL STRIPES AND LEGENDS WITH GLASS BEADS.
3. WHERE PAINT IS SPECIFIED, TRAFFIC STRIPES AND MARKINGS SHALL BE APPLIED IN TWO COATS A MINIMUM OF 7 DAYS APART.
4. ALL STOP BARS, LIMIT LINES, CROSSWALKS, PAVEMENT ARROWS, AND PAVEMENT LEGENDS SHALL BE THERMOPLASTIC.
5. ALL CONFLICTING TRAFFIC LINES, CURB PAINT, AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
6. ALL RAISED PAVEMENT MARKERS SHALL BE PLASTIC.
7. ALL REFLECTIVE RAISED PAVEMENT MARKERS SHALL BE INSTALLED USING EPOXY ADHESIVE. NON-REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED USING BITUMINOUS ADHESIVE.
8. ALL STRIPING AND PAVEMENT MARKER LOCATIONS SHALL BE CAT-TRACKED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.



SIGNING AND STRIPING NOTES:

1. INSTALL 12-FOOT WIDE CROSSWALK WITH 12-INCH YELLOW THERMOPLASTIC CROSSWALK LINES AND 24-INCH WIDE YELLOW THERMOPLASTIC LADDER STRIPES AT 4 FEET ON CENTER PER CALTRANS STANDARD PLAN A24F.
2. PAINT/RE-PAINT 4-INCH DOUBLE YELLOW CENTERLINE STRIPES PER CALTRANS STANDARD PLAN A20A, DETAIL 21.
3. PAINT/RE-PAINT 8-INCH WHITE CHANNELIZATION LINE PER CALTRANS STANDARD PLAN A20D, DETAIL 38A.
4. PAINT/RE-PAINT 4-INCH WHITE X 50-FOOT LONG LEAD LINE AT ALL INTERSECTION.
5. PAINT/RE-PAINT 6-INCH WHITE BIKE LANE LINE PER CALTRANS STANDARD PLAN A20D.
6. PAINT/RE-PAINT 6-INCH WHITE BIKE LANE INTERSECTION LINE PER CALTRANS STANDARD PLAN A20D.
7. INSTALL 10-FOOT WIDE CROSSWALK WITH 12-INCH WHITE THERMOPLASTIC CROSSWALK LINES AND 24-INCH WIDE WHITE THERMOPLASTIC LADDER STRIPES AT 4 FEET ON CENTER PER CALTRANS STANDARD PLAN A24F.
8. PAINT 4-INCH DOUBLE YELLOW TWO-WAY LEFT TURN LANE STRIPES PER CALTRANS STANDARD PLAN A20B, DETAIL 31.
9. PAINT 4-INCH WHITE LANELINE STRIPE PER CALTRANS STANDARD PLAN A20A, DETAIL 8, WITH 50-FOOT LONG LEAD LINES AT ALL INTERSECTIONS.
10. INSTALL WHITE THERMOPLASTIC TYPE IV PAVEMENT ARROW PER CALTRANS STANDARD PLAN A24A.
11. PAINT BICYCLE LANE ARROW AND BIKE LANE SYMBOL WITH PERSON PER CALTRANS STANDARD PLANS A24A AND A24C.



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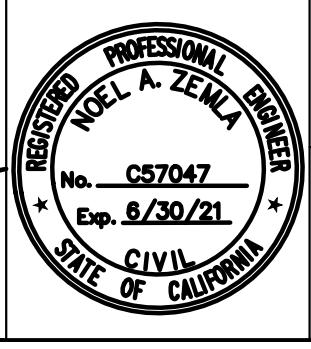
BENCHMARK:
RIVERSIDE COUNTY BENCHMARK...
ELEVATION: _____

BASIS OF BEARING:
STATE PLANE COORDINATE CALIFORNIA ZONE 6 AS DERIVED FROM CORS STATIONS P864, WMMT, AND P800.

DEVELOPER
CITY OF DESERT HOT SPRINGS
65950 PIERSON BLVD.
PHONE (760)329-6411

SCALE: AS NOTED
PLOT DATE: _____
DESIGN BY: J.G.
DRAWN BY: G.G.
CHECKED BY: N.Z.

PREPARED UNDER THE DIRECT SUPERVISION OF:
Noel Zemla 8/14/19
NOEL ZEMLA DATE
R.C.E. 57047 EXP. 06/30/21
GEO-TECHNICAL CERTIFICATION, IF REQUIRED BY: N/A



RECOMMENDED FOR APPROVAL BY: _____ DATE _____
APPROVED BY CITY OF DESERT HOT SPRINGS: _____ DATE _____
INTERIM CITY ENGINEER

CITY OF DESERT HOT SPRINGS
PIERSON BLVD. - CHOLLA DR.
PALM DR. - DESERT VIEW AVE.
TRAFFIC SIGNAL
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SHEET **4**
OF **4**
PRIVATE REFERENCE # _____
CITY REFERENCE # _____